

LASER ENGRAVING METHOD, LASER ENGRAVING COMPOSITION, AND
ARTICLES HAVING A LAMINATE THAT INCLUDES SAID COMPOSITION

5 Abstract of the Disclosure

The invention provides a composition having laser engraving properties, comprising a host material and an effective amount of a laser enhancing additive. The laser enhancing additive comprises a first quantity of least one of copper potassium iodide (CuKI_3) or Copper
10 Iodide (CuI), and a second quantity at least one substance selected from the group consisting of zinc sulfide (ZnS), barium sulfide (BaS), alkyl sulfonate, and thioester. The composition can be engraved with grayscale images by an Nd:Yag laser and can be added to laminates or coatings. The composition can be used during the manufacture of many articles of manufacture, including identification documents.